

FIG. 1A

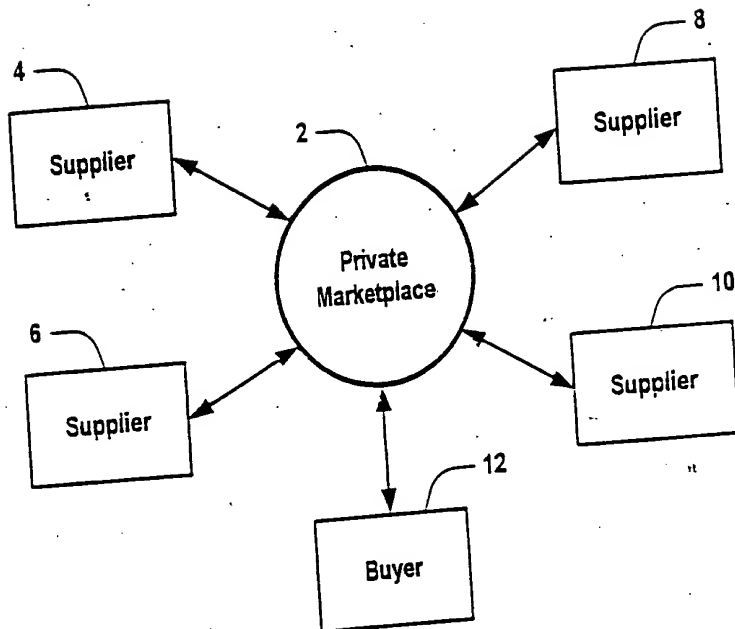


FIG. 1B

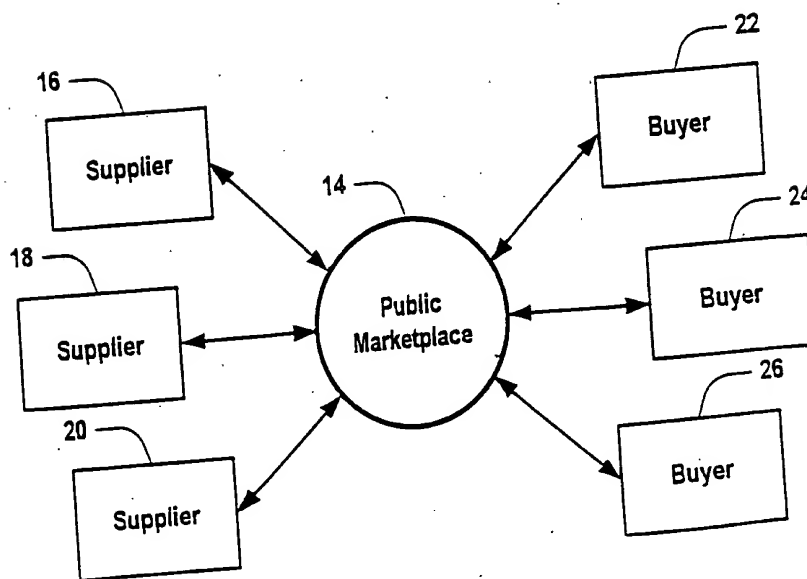
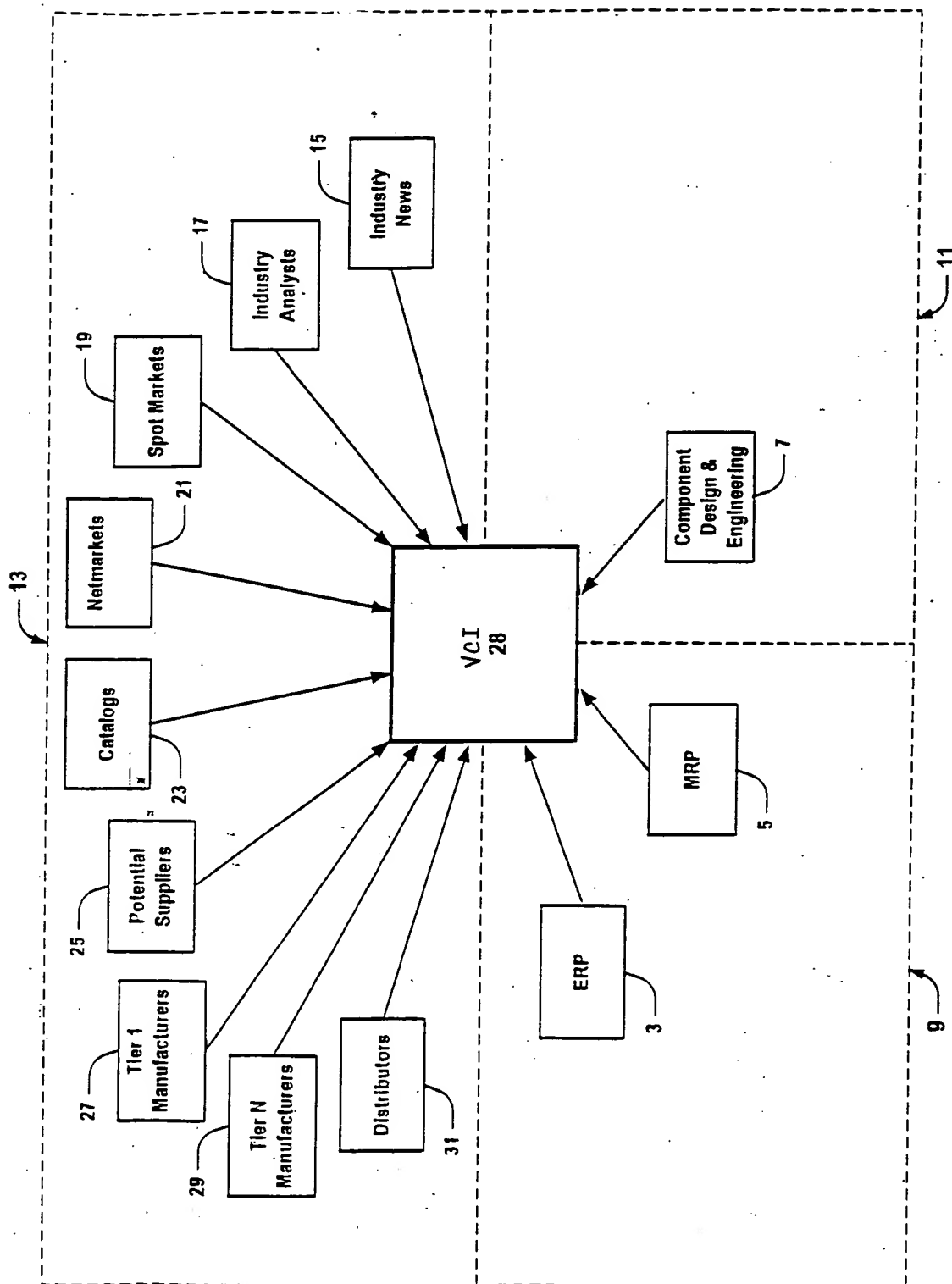


FIG. 1C



The diagram illustrates a VCI (Vehicle Control Interface) system architecture. At the center is a square block labeled "VCI 28". Surrounding this central block are four circular components: "Internal Data 30" at the top, "External Data 32" at the bottom, "Planning Functions 34" on the left, and "Execution Functions 36" on the right. Bidirectional arrows connect the central VCI 28 block to each of these four circular components. Additionally, bidirectional arrows connect the four circular components in a diamond configuration: Internal Data 30 to Planning Functions 34, Planning Functions 34 to External Data 32, External Data 32 to Execution Functions 36, and Execution Functions 36 to Internal Data 30. A dashed line, labeled 40, encloses the four circular components (Internal Data 30, External Data 32, Planning Functions 34, and Execution Functions 36). Another dashed line, labeled 38, encloses the entire system, including the central VCI 28 block and the four circular components.

FIG. 3A

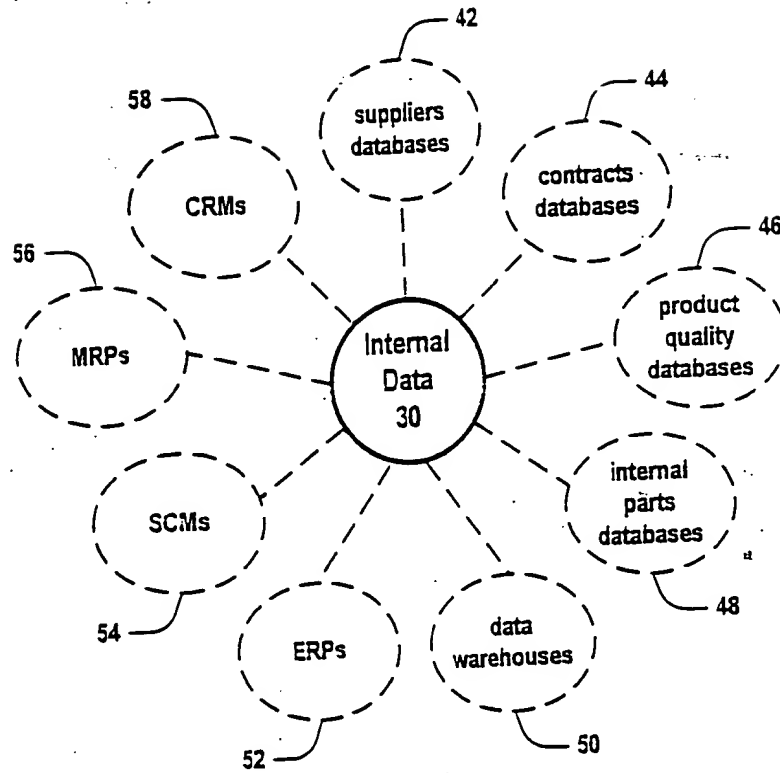
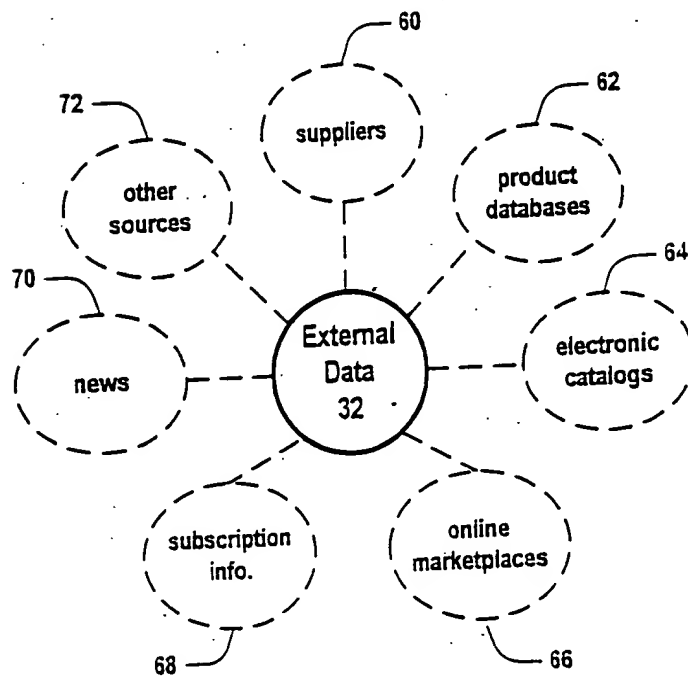


FIG. 3B



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graph TD; ID((Internal Data 30)) --> DM[(Data Mart 74)]; ED((External Data 32)) --> DM; DM --> D[Discovery 76]; D --> A[Analysis 78]; A --> R[Recommendation 80]; R --> E[Execution 82]; D --> ND[New data integrated into Data Mart 74]; A --> ND; R --> ND; E --> ND; ND --> DM;
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The diagram illustrates a data processing workflow. At the top, two circles represent 'Internal Data' (30) and 'External Data' (32). Arrows from both point to a cylinder labeled 'Data Mart' (74). From the 'Data Mart', an arrow points down to a rectangle labeled 'Discovery' (76). From 'Discovery', an arrow points down to a rectangle labeled 'Analysis' (78). From 'Analysis', an arrow points down to a rectangle labeled 'Recommendation' (80). From 'Recommendation', an arrow points down to a rectangle labeled 'Execution' (82). To the right of the main flow, a vertical line represents a feedback loop. Arrows from the right side of 'Discovery', 'Analysis', 'Recommendation', and 'Execution' all point to this line. A label 'New data integrated into Data Mart 74' is placed next to this line. An arrow from the top of this line points back to the 'Data Mart' (74).

FIG. 5

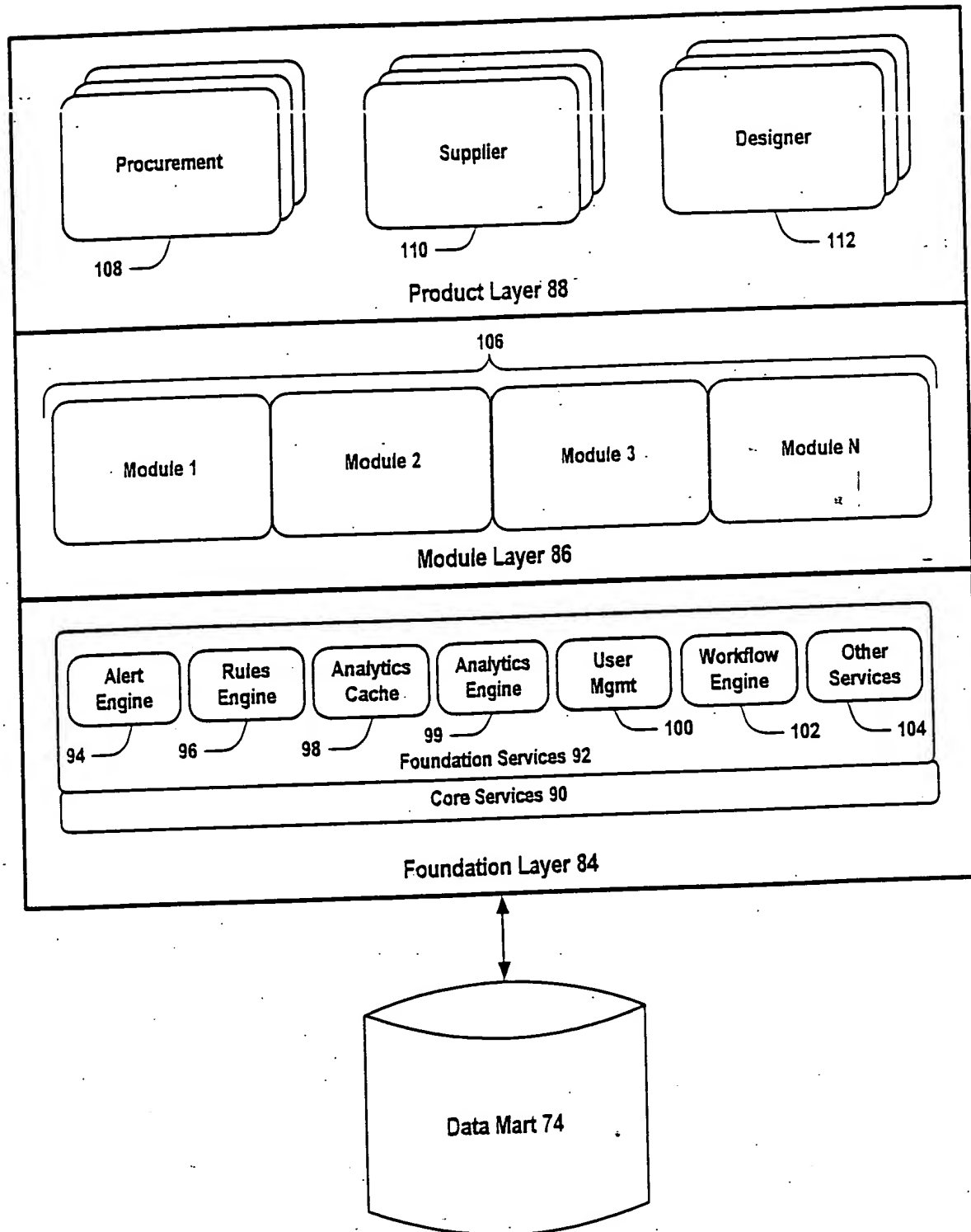


FIG. 5

FIG. 6

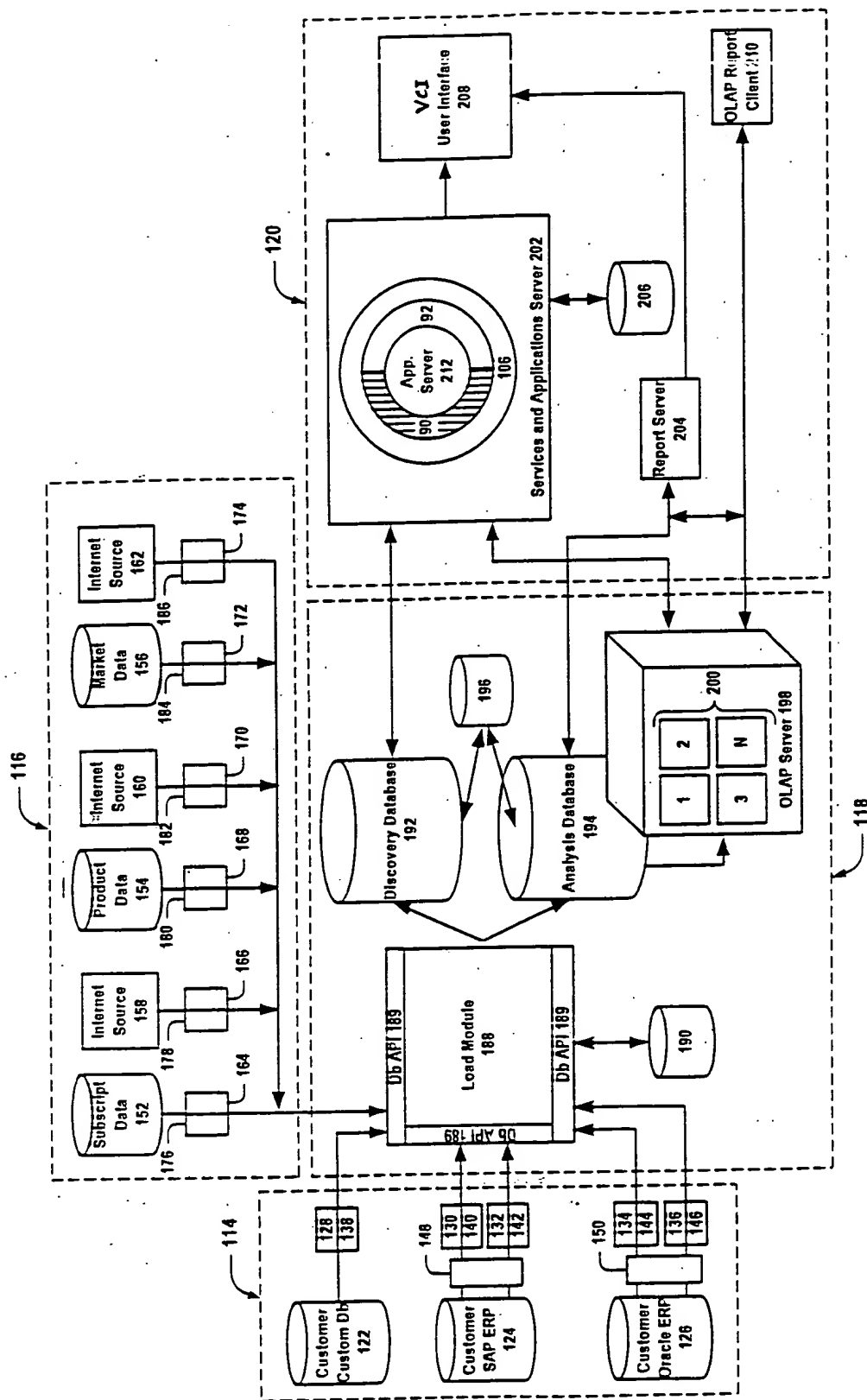


FIG. 7A

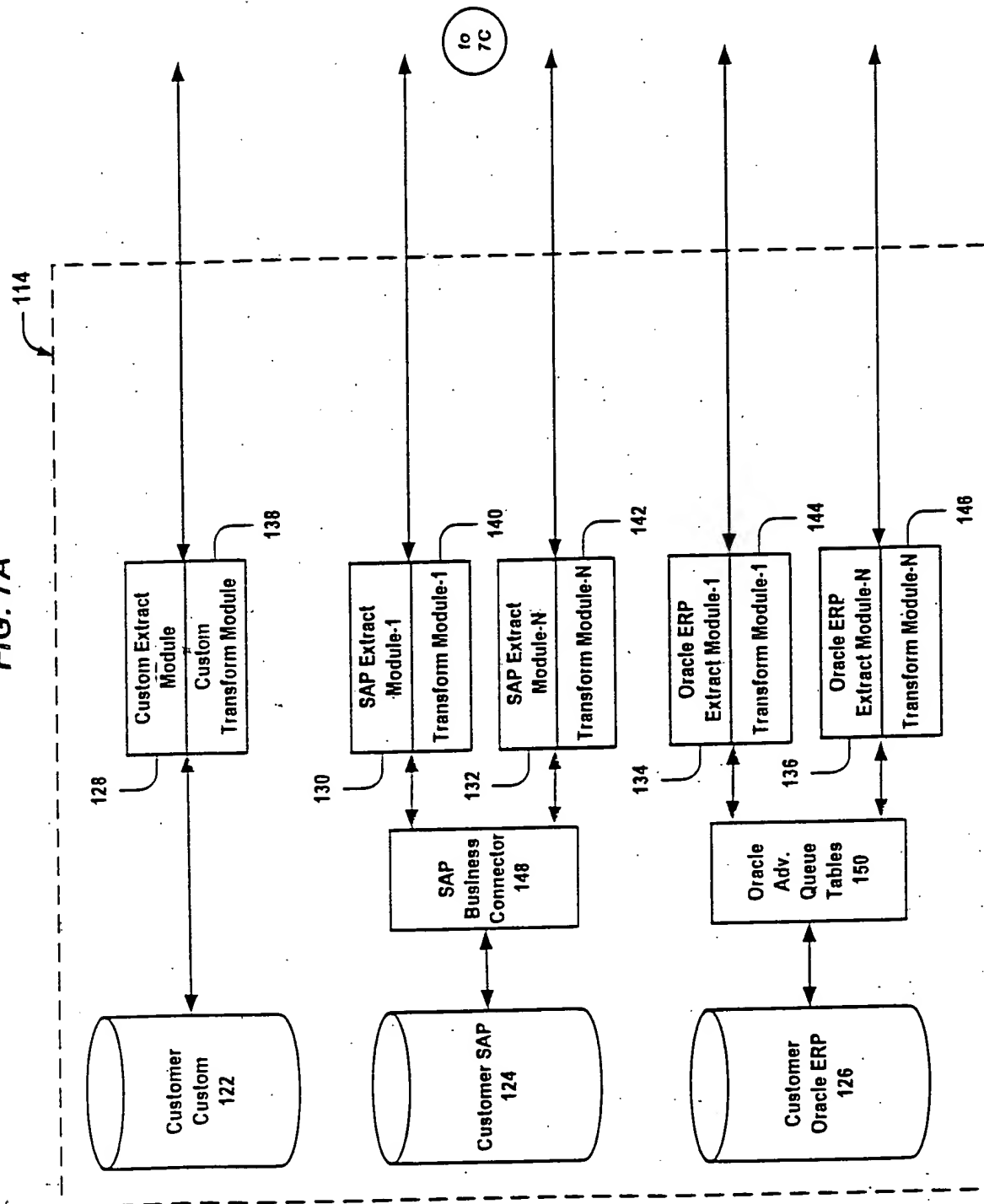


FIG. 7B

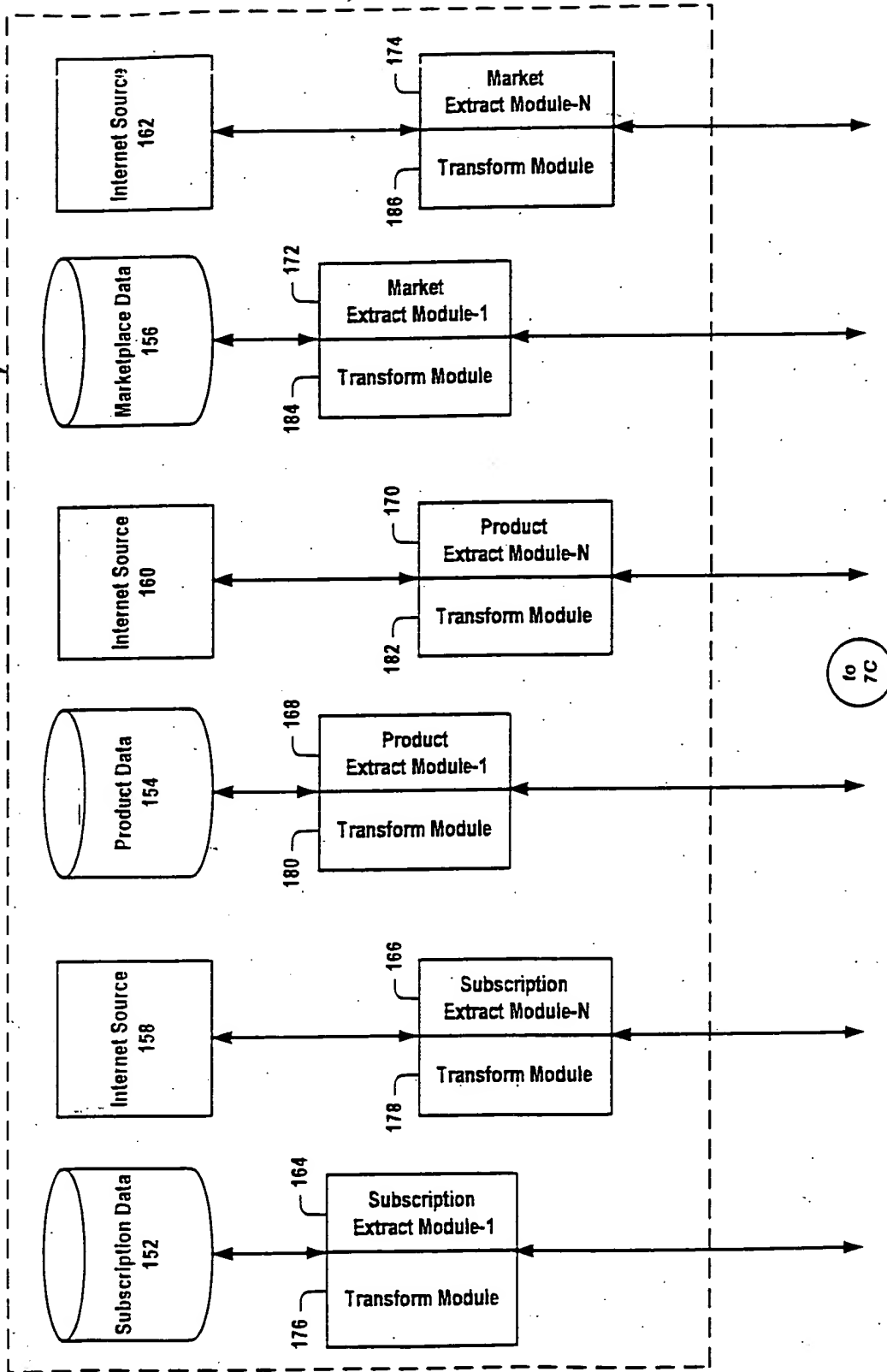


FIG. 7C

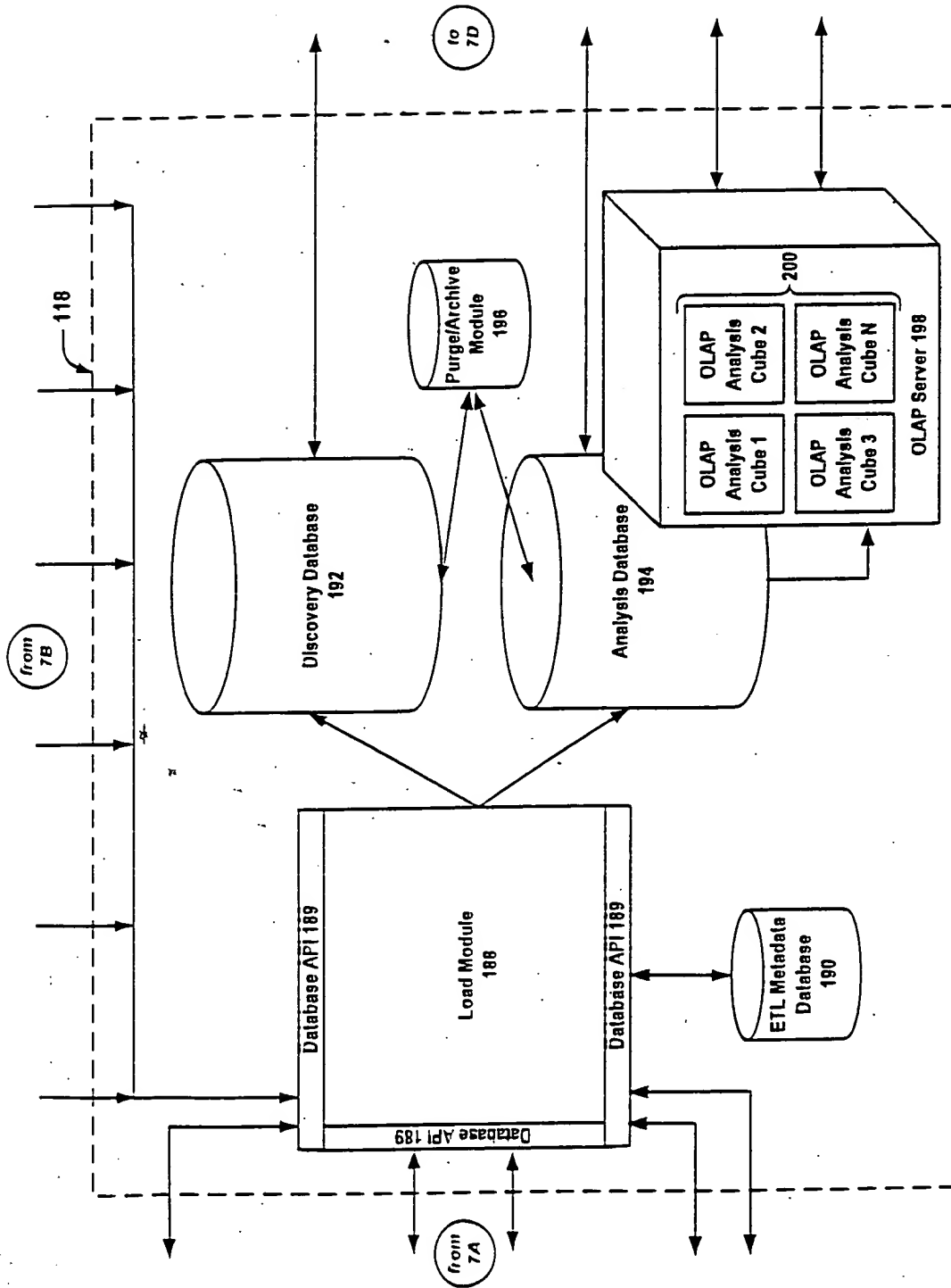


FIG. 7D

